



CBA Captain[®] (tested as CICA1521)

Agzone 4 WA

April 2023, prepared by NSW DPI

- CBA Captain[®] is a broadly adapted desi chickpea variety with an erect plant type (like Genesis[™]836).
- CBA Captain[®] has a good height to lowest pod and good lodging resistance. These attributes combined provide excellent harvestability. Far superior to PBA Slasher[®] and PBA Striker[®].
- CBA Captain[®] is mid flowering and early to mid-maturing in WA growing environments.
- CBA Captain[®] has been evaluated in WA NVT testing since 2017. CBA Captain[®] has consistent long-term yield gains over Genesis[™]836 and similar or higher yields than PBA Striker[®] in Agzone 4 (Table 1). Please see <https://app.nvtonline.com.au> for location specific yield data.

Table 1. Long term yield (2018-2021) of CBA Captain[®] and current chickpea varieties, expressed as a % of the mean yield, in NVT in Agzone 4.

Variety	Mean Yield	2018	2019	2020	2021	2022
		1.41 t/ha	0.86 t/ha	1.24 t/ha	1.21 t/ha	0.65 t/ha
CBA Captain	9	103	105	117	105	110
PBA Striker	9	103	105	104	104	103
Neelam	9	102	98	104	103	106
PBA Slasher	9	100	105	102	104	100
PBA Maiden	9	104	107	94	95	95
Genesis 836	9	99	93	99	98	102

Source: <https://app.nvt.grdc.com.au/lty/table/chickpea-desi/wa/agzone4/>

Disease resistance

- CBA Captain[®] has an NVT pulse disease rating for Ascochyta blight of Moderately Susceptible (MS) in the northern region and Susceptible (S) in the southern region.
- In WA, Ascochyta Blight evaluation has been performed by the Centre for Crop and Disease Management (CCDM) Curtin University, where CBA Captain performed similarly to Genesis[™]090 with lower disease observed than for Genesis[™]836, PBA Striker and PBA Slasher.
- Each year, the CCDM program collects and tests Ascochyta samples from WA growing regions. A small proportion of fungal isolates collected from 2019 to 2022 have elevated levels of aggressiveness, but CBA Captain remains the most resistant variety tested.

Citation: Dr. Robert Lee, Pulse Pathology and Genetics, Centre for Crop and Disease Management, April 2023.

- CBA Captain[®] has a disease rating for Botrytis grey mould of Susceptible (S), the same as all other current chickpea varieties.

Grain quality

- CBA Captain[®] has a medium seed size with a yellow-brown seed coat and angular seed shape, similar to PBA HatTrick (widely grown desi in NSW, QLD)

Chickpea Agronomy

- Please refer to the following DPIRD chickpea guides;

<https://www.agric.wa.gov.au/chickpeas/desi-chickpea-essentials>

https://www.agric.wa.gov.au/sites/gateway/files/DPIRD_CSG%202023_Pulse%20Guide.pdf

Seed availability

- CBA Captain[®] has an end point royalty of \$4.50/tonne (ex-GST).
- Sourcing Seed



08 9651 1069



08 9045 4036

- CBA Captain[®] was developed by the PBA Chickpea program (led by NSW Department of Primary Industries). The partners of the PBA Chickpea program were: GRDC, NSW DPI, Department of Agriculture and Fisheries (QLD), Agriculture Victoria and the South Australian Research and Development Institute.



<https://www.chickpeabreedingaustralia.com.au/>